NPIC/TSSG/RED-076-70 3 March 1970

MEMORANDUM FOR: Executive Officer, Technical Services & Support Group	900
SUBJECT: Anticipated R&D Efforts Which Should Be Considered in Future Wiring and Air Conditioning Requirements for	
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1. The following is some cursory information for utilization in developing rationale and justification for wiring and air conditioning requirements. This paper will have the inherent weaknesses of any such document written on short notice without sufficient time to perform detailed investigations. However, the following dissertation may provide some insight into what RED foresees for the future.	25X1
2. One of the current R&D programs which will have significant impact over the next five-year period is the development of	25X1
3. Equipment such as the graphics terminal, which would result from the current and anticipated contracts could also be coming into the Building within the next three years. Their current and heat requirements would need to be allowed for. If the IIS units coming into the Building have not been computed in terms of current and heat implications, this should be done immediately.	
within would result in additional computer capacityup to that of an additional IBM 360, or a commensurate increase in 494 capacitywith obvious loads upon the electrical and air conditioning systems	25X1

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5. The 1540 Light Tables have already been discussed extensively, the Scan & Search FI Station, to some lesser degree. In the mensuration area, the Digitized Measuring Light Table prototype, currently under evaluation in FSD, could develop into a best seller and add additional burdens to the electrical and air conditioning systems. The Twin-Stage On-Line PI Comparator is intended for production use in IAS; while the 10" Stage Stereo Comparator, contemplated for development this year, is intended for multiple purchase by PSG. They, too, will have an impact, more upon the air conditioning than upon the electrical loads. The future employment of automatic stereo scanning equipment by 1974, or there abouts, could impact significant current and air conditioning loads upon the Center. These could be computed, given time. In a generic sense, the majority of equipment to be brought into
6. There are attempts to speed up and quantify the image evaluation process. Results in this area will probably come from either the application of digital scanning or physical optics techniques. Both approaches require electricity and release heat to the room in significant quantities.
7. Furthermore, if the Center becomes involved to any extent with EIO then quantities of electro-optical printing equipment and electronic displays could be forthcoming in the next five or six years.
8. These are just a few thoughts on the matter, short, with none of the depth that would result from extensive examination. These should, how-ever, help you to bound the problem and acquire an appreciation for the total extent of its implications.
Deputy Chief, Research & Engineering Division, TSSG
Research & Engineering Division, 1000
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